

The Albion-Sheridan Landfill PRP Group

US EPA RECORDS CENTER REGION 5



470719

November 17, 1999

Mr. Jon Peterson
United States Environmental Protection Agency
Region V
77 W. Jackson Blvd. 5HSRW-6J
Chicago, Illinois 60604

Subject: Final Construction Inspection, Albion-Sheridan Township Landfill

Dear Mr. Peterson:

The attached meeting minutes regarding the Final Inspection of the ASTL site are for your records. I have also provided a copy of the sign in sheet.

Please call me at (313) 961-9797 if you have any questions.

Very truly yours,

John Seymour, P.E.
Project Coordinator

cc:	R. Uber	J. Gray	T. Hicks	J. Nenni
	C. Denton	P. Moilanen	W. Petruzzi	M. Schaefer
	L. Schmidt	E. Smary		

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**FINAL INSPECTION
ALBION-SHERIDAN TOWNSHIP LANDFILL
NOVEMBER 2, 1999
ALBION, MICHIGAN**

TIME

Start: 11:30 am

Finish: 12:45 PM

ATTENDEES

A list of attendees is attached.

MINUTES

1. Some barbed wire is missing from the top of the fence. This will be installed within two weeks by OHM.
2. There is a gap under the fence in several places that looks excessive. Specification 028313.01.H.1 states "Leave approximately 3 inches between finish grade and bottom salvage, ...". OHM will be required to correct the fencing to meet the specification. URSGWC will inspect the corrected fencing and include our observations in the Completion of Remedial Action Report that will be submitted within 30 days of the Final Inspection in accordance with the Consent Decree (December 2, 1999).
3. MDEQ requested well casing elevations. The new well elevations will be provided in the Completion of Remedial Action Report; Hull Engineering (consultant for operations and maintenance Settling Defendants) already has the rest of the elevations.
4. Hull requested electronic files of construction record drawings; these will be provided by URSGWC.
5. The MDEQ requested laboratory analytical results from the "green soil" material. These analytical results are in the Completion of Remedial Action Report.
6. The City of Albion requested information regarding the grass care. OHM is responsible to provide much of this information as part of project closeout per Specification 02936 paragraph 1.08. This submittal will be forwarded to the City of Albion after approval of URSGWC.

7. The western slope of the new berm constructed to control surface water runoff in the northwest part of the site appeared to be too steep. The design criterion, as provided in Change Order #3, requires a 2H:1V slope. The post construction record drawing was checked and the slope exceeds the 2H:1V slope. The URSGWC design engineer has checked the as-built situation and has accepted the slope condition provided that erosion fabric is installed in accordance with Specification 02936. The slope drains its own drainage area (it doesn't convey runoff from other areas), which is small, the slope length is relatively short and erosion is not expected to be a problem once vegetation is established. An acceptable erosion fabric is "Excelsior", laid in the longitudinal direction of the berm, with a 3-ft overlap over the top of the berm, and pinned/anchored in accordance with the manufacturer's recommendations. The fabric will be installed by OHM by December 2, 1999.
8. The City of Albion indicated that the one year warranty should extend 12 months from the date of any erosion repairs/reseeding. The contract (Specification 00700 paragraph 3.23 and Specification 02936, section 1.10) defines the warranty period and the maintenance service period to be one year after Substantial Completion as defined by the "Group" (Albion-Sheridan Landfill PRP Group). The Group considers Substantial Completion to have occurred on October 15, 1999, the date seeding and mulching was completed. There is no provision in the Contract Documents to extend the warranty based upon the date of any maintenance that occurs after the Substantial Completion date.
9. There is dead wood (cut trees and branches) on the site: 1) along the fence alignment, and 2) north of the former temporary staging area for drums discovered during waste consolidation. The dead wood along the fence alignment is approximately 15 ft or greater inside the fence and was created to construct clear access for vehicles around the fence perimeter and was not a part of the original design. According to the Resident Engineer, the deadwood currently located near the former temporary staging area existed in the western site area when construction began and was relocated to its current location. This wood was already down and was not cut down by OHM. All of the dead wood is outside the area of the landfill cover and drainage conveyance components and does not affect the performance of the landfill. Further, the dead wood does not pose a safety nor security concern as it is within a fenced/secure area. Therefore, the dead wood will remain.
10. The MDEQ and EPA were concerned that the surface water drainage area for the new ditch in the northwest area is large compared to the size of the ditch. The revised design, based upon the actual site topographic contours, indicates the drainage area is about three acres. According to the design calculations, the ditch will convey the surface water adequately. The agencies recommended, and URSGWC agrees, that

the area will be monitored/observed to verify performance and checked in the spring of the year 2000.

11. The rip rap chute in the southwest corner of the landfill appeared to not convey the water from the slopes. In accordance with the design, the chute is designed to convey the surface water only from the southern berm located on top of the landfill (see attached sketch). Based upon the observations of the Resident Engineer during a rainfall event, the chute received water from the southern berm and performed as designed. The surrounding land surface areas are designed to drain surface water runoff as sheet flow into the west drainage retention basin.
12. The stick up of several monitoring wells along the west side of the landfill (MW-3 cluster) is less than two feet because of soil backfilling that occurred in the area to accommodate the cover construction. There was no provision in the Contract Documents, including the approved design, to modify well stick up. Because the wells and protective casings perform adequately, no further alterations are necessary.
13. The MW-3 monitoring well cluster is in a shallow depression about 50-ft diameter and 1-ft deep. The MDEQ and Hull Engineering was concerned that the depression would influence groundwater. This depression was created to achieve adequate stick up for the wells. As noted over the past six months of construction, the sand soils at the site, including at the location of these wells, accepts rainfall and infiltrates essentially without ponding. Infiltration occurs around the monitoring wells and for many acres around the monitoring wells. As the water that accumulates in the depression infiltrates downward, it will seek equilibrium with surrounding infiltration, moving laterally to dissipate potential impacts. In our judgement, the amount of impact from this small depression is expected to be so small that it will not be significant.
14. The MDEQ indicated they believed that the rip rap in the northernmost end of the east drainageway should have been extended up and to the west in the upper reaches of the drainageway. Following the pre-final site inspection, the rip rap was extended farther northward than originally designed. However, based upon the slope of the upstream drainageway and the expected flow, additional rip rap is not required.
15. URSGWC requested a copy of the Operation and Maintenance Plan from the O & M Settling Defendants, who requested that Hull Engineering forward a copy to URSGWC.
16. The draft construction completion report will be submitted within 30 days after the Final Inspection. It was agreed that all parties did not need the appendices (field data) for the draft report. The following parties will receive full copies of the draft report: EPA (1 copy), Hull Engineering (1 copy), MDEQ (1 copy). Further, Mr. William

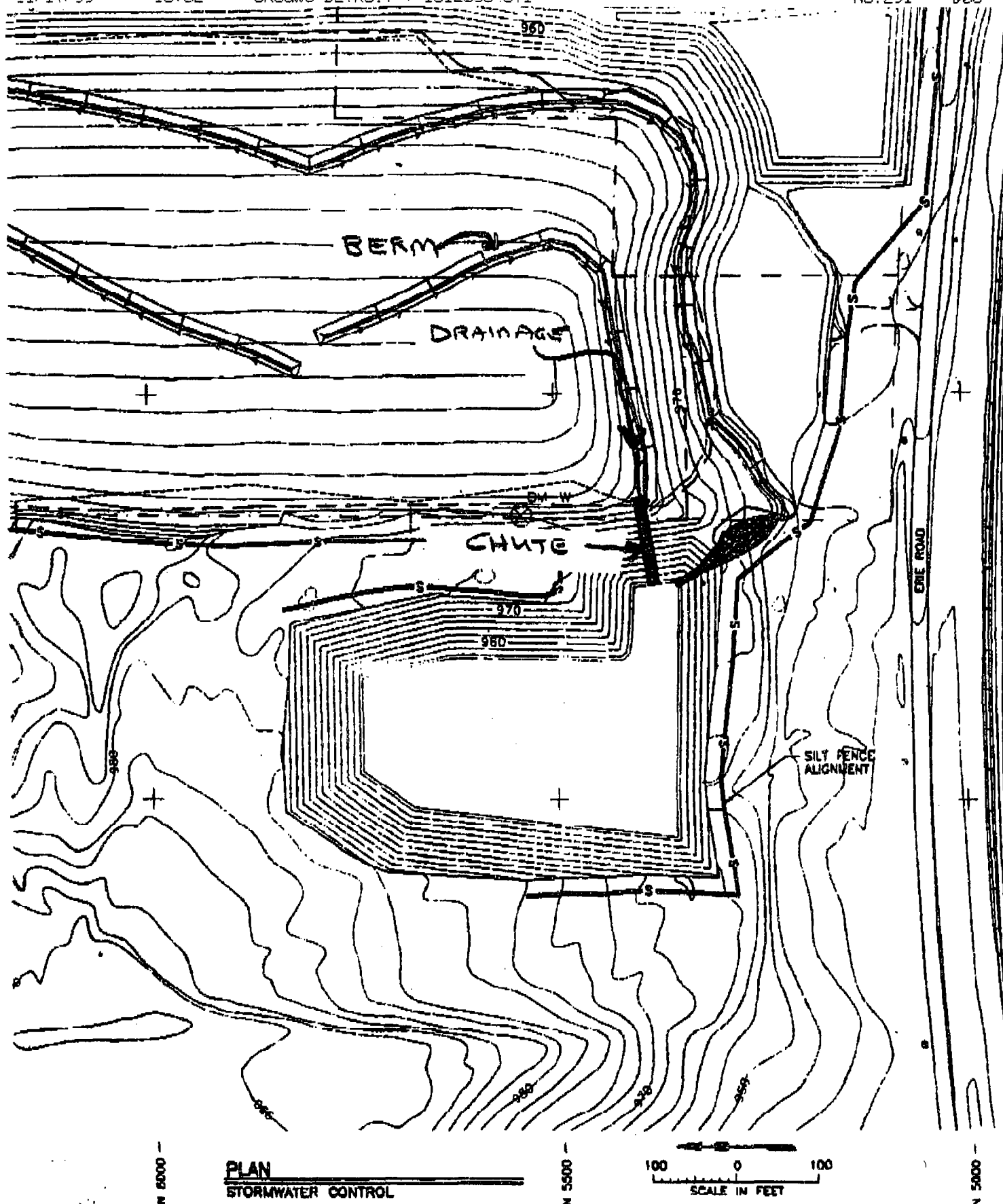
Muno (EPA) does not need any copies of reports in accordance with Mr. Jon Peterson's direction. All other parties on the required distribution list will receive one copy of the draft report without the appendices. The final report will be submitted in its entirety to all required parties.

ACTION ITEMS

1. Finish installation of barbed wire on the fencing.
2. Correct the fencing so it meets specifications for clearance from the ground at the bottom of the fence.
3. URSGWC will provide well casing elevations and Hull Engineering will provide existing well casing elevations.
4. Provide "green soil" material analyses to MDEQ in the Completion of Remedial Action Report.
5. Provide grass care information submittal to the City of Albion.
6. OHM is to add erosion protection fabric to the slope on the berm constructed in the northwest site area.
7. Observe/verify the performance of the surface water runoff control features in the northwest site area over the next year.
8. Hull Engineering is to forward a copy of the Operation & Maintenance Plan to URSGWC.
9. Inspect the site in May 2000 to assess the condition of the site and identify any maintenance needs.

11/2/99
FINAL INSPECTION

<u>NAME</u>	<u>ORGANIZATION</u>	<u>PHONE #</u>
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From:
Drawing 10 of
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8/97

Woodward-Clyde 
Consultants

Engineering & sciences applied to the earth & its environment

Port Place West Building, Suite 600
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Minneapolis, Minnesota 55426

WARNING

9 1/2

IF THIS BAR DOES
NOT MEASURE 1"
THEN DRAWING IS
NOT TO SCALE

DESIGNED	RJ
DRAWN	SWH
CHECKED	LGM
DESK REVIEWED	RMG
PROJECT MANAGER	RGG
DATE	3/08/97